Anatoliy Alekseyevich Dorodnitayn ... C 111/C 222

Switzerland in 1960. His papers contain escintial contributions in the donaine; dynanic seteorology, gas dynanics and applied anthonatics.

The authors sention N. Ye. Zhukovskiy and S. A. Chaplygin. There is a list containing the publications of A. A. Dorodnitayn (1936-1960)

with 23 titles and a photo of him.

Card 3/3

1327, 2607, 3113 10.1200

5/040/61/025/003/009/026 D208/D304

AUTHORS:

Ryzhov, O.S., and Shmyglevskiy, Yu.D. (Moscow)

TITLE:

On the property of a supersonic gas flow

FERIODICAL: Akademiya nauk SSR. Otdeleniye tekhnicheskikh nauk. Prikladnaya matematika i mekhanika, v. 25, no. 3,

1961, 453 - 455

TEXT: When gas flow in Laval nozzles is investigated, difficulties are encountered in the construction of flow in the vicinity of the narrowest cross-section, where the transition from subsonic to supersonic velocities takes place, as in that region the motion is described by mixed, elliptic-hyperbolic type equations, whose general properties are not well-known. Solving the supersonic part of flow is simplified if the sonic surface is perpendicular to the lines of flow because it also becomes a characteristic surface and the subsonic region is described by elliptic equations, while the supersonic one is described by hyperbolic ones. In this paper, ge-

Card 1/4

26732 \$/040/61/025/003/009/026 D203/D304

X

On the property of a supersonic ...

neral conditions are derived, necessary for a transition surface to coincide with the characteristic surface of the gas dynamical equations and the case becomes unique, when supersonic and subsonic flows can be considered separately. The equations of gas dynamics are

$$v_{j} \frac{\partial v_{i}}{\partial x_{j}} + \frac{1}{\rho} \frac{\partial p}{\partial x_{i}} = 0, \qquad \frac{\partial \rho v_{j}}{\partial x_{j}} = 0, \qquad v_{j} \frac{\partial s}{\partial x_{j}} = 0$$

$$p = p(\rho, s)$$
(1)

where v_i , p, j, s are components of stream velocity, pressure, density and entropy respectively at the point x_i . (i, j = 1, 2, 3). Equations of C_{\pm} - characteristic surfaces $x_3 = x_3(x_1, x_2)$ of Eq. (2)

(1) are $v_{j}^{n}j \pm a = 0$ (2)

where $a = /(p/)_s = velocity of sound, and n_j are components of Card 2/4$

On the property of a supersonic ...

²⁶⁷³² S/040/61/025/003/009/026 D208/D304

the normal to those surfaces, for which

$$n_{1} = \frac{1}{k} \frac{\partial x_{3}}{\partial x_{1}}, \qquad n_{2} = \frac{1}{k} \frac{\partial x_{3}}{\partial x_{3}}, \qquad n_{3} = -\frac{1}{k}$$

$$k = \sqrt{1 + \left(\frac{\partial x_{3}}{\partial x_{1}}\right)^{2} + \left(\frac{\partial x_{3}}{\partial x_{2}}\right)^{2}}$$
(3)

is valid. Then Eq. (1) becomes

If C_{\pm} coincides with the sonic surface, then it follows from Eq. (2) that it is orthogonal at all points to the streamlines through those points, and the component of velocity vector tangential to

X

$$v_j = 7 \text{ an}_j \tag{5}$$

Card 3/4

On the property of a supersonic ...

26732 S/040/61/025/003/009/026 D208/D304

 $\frac{\partial}{\partial x_1} \frac{\partial x_3 / \partial x_1}{\sqrt{1 + (\partial x_2 / \partial x_1)^2 + (\partial x_3 / \partial x_2)^2}} + \frac{\partial}{\partial x_2} \frac{\partial x_2 / \partial x_2}{\sqrt{1 + (\partial x_3 / \partial x_1)^2 + (\partial x_3 / \partial x_2)^2}} = 0$ (6)

is obtained as the equation of minimal surfaces. (6) is closely related to the analytical functions of complex variable; its theory is well known. The above result is expressed in the Theorem. If a closed contour encloses the sonic transition surface which coincities with the characteristic surface of gas dynamical equations, then this surface will have a minimum area and velocity vector at any point on it, and will be orthogonal to this surface. An example is given as an illustration. There are I figure and 8 references:

SUBMITTED: February 13, 1961

Card 3/

KATSKOVA, Ol'ga Nikiforovna; SHNYGLEVSKIY, Yuriy Dmitriyevich;
DITKIN, V.A., prof., otv. red.; KOVAL'SKAYA, I.F., tekhn.

[Tables of the parameters of axially symmetric supersonic flow of a freely expanding gas with a plane transition surface] Tablitsy parametrov osesimmetrichnogo sverkhzvukovogo techeniia svobodno rasshiriaiushchegosia gaza s ploskoi perekhodnoi poverkhnost'iu. Moskva, Izd-vo Akad. nauk SSSR, 1962. 363 p.

(MIRA 15:9)

(Supersonic nozzles) (Aerodynamics-Tables, etc.)

S/040/62/026/001/013/023 D237/D304

26.2160

AUTHOR:

Shmyglevskiy, Yu. D. (Moscow)

TITLE:

Variational problems for supersonic bodies of revolution

and nozzles

PERIODICAL:

Akademiya nauk SSSR. Otdeleniye tekhnicheskikh nauk. Pri-

kladnaya matematika i mekhanika, v. 26, no. 1, 1962, 110-125

TEXT: A continuation of the work of L. Ye. Sternin (Ref. 8; Dokl. AN SSSR, 1961, v. 139, no. 2, 335-336). The author presents the results of further investigations of variational problems for axially-symmetrical supersonic flows. A variational method is used to determine the characteristic ensuring a minimum wave resistance of the body of revolution and the sufficient conditions are derived. Discontinuous solutions are constructed for the regions, within which the minimum cannot be reached along the continuous functions, and the region of isentropic flows is singled out. The results obtained are illustrated graphically. An example illustrating the method is worked out, and the paper is concluded with a short discussion on optimal Laval nozzles, i.e. nozzles which in a given flow have a Card 1/2

S/040/62/026/001/013/023 D237/D304

maximum thrust. The problem is shown to be identical to that of the inner streamlining of a body of revolution and the formulas derived above can be used, but with the characteristics interchanged. The author thanks 0.S. Ryzhov for useful criticism, A.N. Belova for performing the calculations and L.V. Papandina for graphical work. There are 10 figures and 12 references: 8 Soviet-bloc and 4 non-Soviet-bloc. The references to the English-language publications read as follows: G.V.R.Rao, Jet Propulsion, 1958, v. 28, no. 6, 377-382; G. Guderley, Zeitschrift für Flugwissenschaften, December 1959, H. 12, 7, 345-350; R.W. Fanselau, Journ. ARS, 1959, v. 29, no. 6, 456-457.

B

SUBMITTED:

July 18, 1961

Variational problems for ...

Card 2/2

PHASE I BOOK EXPLOITATION

SOV/6518

Shmyglevskiy, Yu. D.

Nekotoryye variatsionnyye zadachi gazovoy dinamiki (Some Variational Problems of Gas Dynamics). Moscow, VTs AN SSSR, 1963. 141 p. (Series: Akademiya nauk SSSR. Vychislitel'nyy tsentr. Trudy) Errata printed on inside of back cover. 26000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR.

Resp. Ed.: O. S. Ryzhov; Ed.: I. A. Orlova; Tech. Ed.: N. S. Popova.

PURPOSE: This book is intended for scientific personnel engaged in the study of gas dynamics and aeronautics.

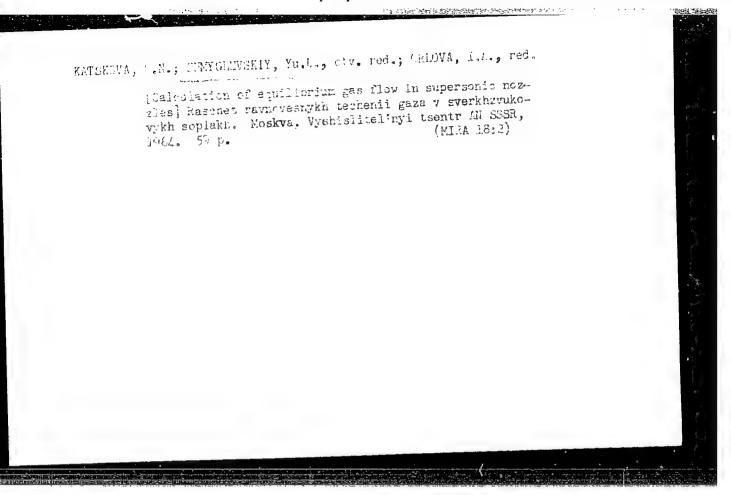
COVERAGE: This book presents the results of previous investigations and some new solutions of variational problems of gas dynamics. Personalities mentioned: D. E. Okhotsimskiy, A. A. Dorodnitsyn, L. S. Sternin, O. M. Belotserkovskiy, P. I. Chushkin, O. S. Ryzhov, A. N. Krayko, M. K. Kerimov, I. N. Naumova, L. V. Papandina, and A. N. Belova. There are 25 references, 19 Soviet and 6 non-Soviet.

Card 1/4

		S/ D2	/040/63/027, 51/0308	/001/025/02	7	
AUTHORS:	Borisov, V.M.					
TITLE:	On the set-up	of variation	problems of	E gas dynam	ics	
PERIODICAL:	Prikladnaya ma 1963, 183-185	itematika i me	khanika,"v.	. 27, no. 1	•	
TEXT: and isentropic variation probl ing with the pr tion problem ar	flow expressed ems for such a oblem of maximu	as a contour flow are give m nozzle thru	integral. n. Two met st and one	The set-up thods of de	or al-	
SUBMITTED:	October 10, 19	62				
	•					
		10				
Card 1/1		4-1				
The second second						
						Act of
A CONTRACTOR OF THE PERSON OF		AND DESCRIPTION OF THE PERSON	Name and Address of the Owner, where the Party of the Owner, where the Owner, which is the Owne	THE RESERVE OF THE PARTY OF THE		البطق المتالية المساوي

HARROVA, I.M.; SHMYCLLVSLIV, Yu.B., etc. man; MELOVA, I.A., red.

[Relbot of characteristics for the equilibrium flow of a moniceal gas] Neted kharakteristik sila raynovesnykh teshamit nesovershemogo gass. honava, Vyantalivel'nyi tsentr Al S.S.R. 1964. 43 p. (MRA 18:2)



SHMYGLEVSKY, YU.D. (Moscow)

"Some variational problems of gas dynamics".

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 January - 5 February 1964

ACCESSION NR: AP4022657

5/0207/64/000/001/0109/0113

AUTHORS: Pavlova, L. M. (Moscow); Shmy*glevskiy, Yu. D. (Moscow)

TITLE: Boundary layer in radiating gas

SOURCE: Zhurnal priklad. mekhan. i tekhn. fiz., no. 1, 1964, 109-113

TOPIC TAGS: boundary layer, radiating gas, plane flow, axisymmetric flow, wing, body of rotation, thermodynamic equilibrium, radiant energy, Navier Stokes equation, approximation, numerical computation, Mach number

ABSTRACT: The authors study plane and axisymmetric flow of radiating gas in the boundary layer of plane surfaces. Such surfaces bound, for example, a wing with a rhombiform profile and the plane front part of a body of rotation. Simplified equations proposed by other authors which facilitate computation are studied. The authors obtain an inequality for which such simplification is permissible, and they derive conditions determining the possibility of using this simplification, Error not exceeding that in equations of the boundary layer in comparison with the Navier-Stokes equations is considered permissible in computing the flow of

Card 1/2

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549810013-9

ACCESSION NR: AP4022657

radiant energy. The wall temperature is assumed to coincide with the gas temperature when the axis y = 0. Such coincidence occurs in the case of a sublimating surface. The authors do some numerical computations for specific cases, which are presented in a table. Orig. art. has: 1 figure, 1 table, and 22 formulas.

ASSOCIATION: none

SUBMITTED: 240ct63

DATE ACQ: 08Apr64

ENCL: 00

SUB CODE: AI

NO REF SOV: 006

OTHER: 002

Card 2/2

SHMYGDEVSKIY, Yu.D. (Moscow)

Some variation problems of gas dynamics. Archiv mech 16 no.3: 557-569 164.

1. Computer Center of the Academy of Sciences of the U.S.S.R.

L 10801-65 ENT(1)/EWP(m)/FCS(k)/EWA(1) Pd-4 ACCESSION NR: AP4013392

5/0040/64/028/001/0178/0182

AUTHORS: Krayko, A. N. (Moscow); Naumova, I. N. (Moscow); Shmy*glevskiy, Yu. D. 3 (Moscow)

TITLE: Construction of bodies of optimal shape in supersonic flow | SOURCE: Prikladnaya matematika i mekhanika, v. 28, no. 1, 1964, 178-182

TOPIC TAGS: optimal shape, supersonic flow, minimal drag, maximal thrust, axisymmetric jet, Lagrange problem

ABSTRACT: Under certain simplifying assumptions of a nature too detailed to be covered here, the authors determine the regions of existence in the plane of flow of various solutions to the problem of determination of bodies with minimal drag and jets with maximal thrust when certain limitations are placed on the dimensions involved. Working basically with a jet, they also construct new solution schemes. Their solutions contain the part of the boundary extremum brought about by the dimension restriction, which was formerly lost due to the necessity, previously, of using numerical methods. Orig. art. has: 3 figures and 26 formulas.

ASSOCIATION: none

SUBMITTED: 240ct63

SUB CODE: ME

Card 1/1

NO REF SOV: 006

ENCL: 00

OTHER: 005

Card 1/4

ShmyglevskIV. EWT(d)/EWT(1)/EWP(m)/EWT(m)/EWP(w)/EWG(s)-2/EWG(v)/EWA(d)/EWP(v)/ L 50193-65 EPR/T-2/EWP(k)/EPA(bb)-2/FCS(k)/EWA(h)/EWA(1) Pd-1/Pe-5/Pf-4/Ps-4/Peb/Pw-4 WW/EM BOOK EXPLOITATION AM5013082 Katskova, O. N. Calculation of equilibrium gas flow in supersonic nozzles (Raschet ravnonesnykh techeniy gaza v sverkhzvukovykh soplakh) Moscow. VTs AN SSSR, 1964. 59 p. illus., biblio. 1850 copies printed. Series note: Akademiya nauk SSSR. Vychislitel'nyy tsentr. Trudy TOPIC TAGS: equilibrium gas flow, supersonic nozzle, annular nozzle, nozzle design PURPOSE: This book is intended for technical personnel concerned with design and operation of nozzles. COVERAGE: The procedure and formulas for calculating of gas flow parameters in plane and exisymmetric nozzles are presented. Steady equilibrium flows of an imperfect gas with arbitrary thermodynamic characteristics are examined. Equations are given for a particular case of an adiabatic flow of a perfect gas. Gas flows in nozzles with plane nozzles and with a break in the generatrix at the

L.50193-65

AN5013082
discharge section, as well as in annular nozzles are examined. The method of characteristics properly adapted for the computation on electronic computers is utilized. The author thanks Yu. D.
Shmyglevskiy, A. N. Krayko, and O. S. Ryzhov, for their advice and comments. There are 41 references: 27 Soviet, 12 English, and 2 German.

TABLE OF CONTENTS:
Introduction -- 3

Equations. Basic problems -- 4

Chapter 1: Flow in the vicinity of the throat -- 8

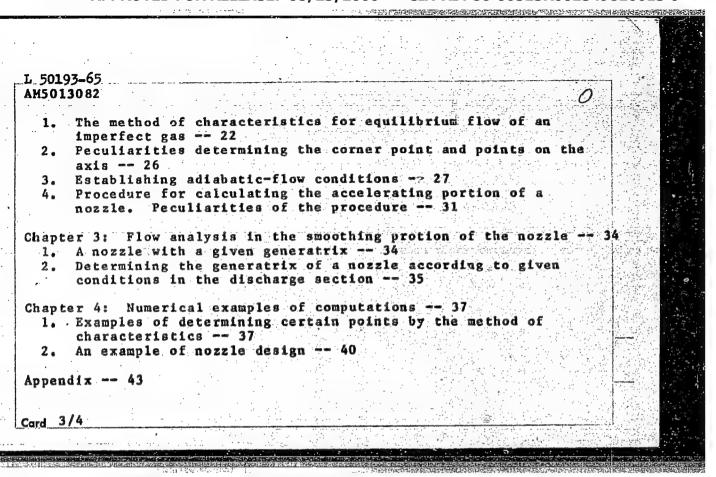
1. A nozzle with a central entrance -- 8

2. Annular nozzles with one corner point -- 15

3. Annular nozzles with two corner points -- 16

Chapter 2: Flow analysis in the accelerating portion of the nozzle -- 22

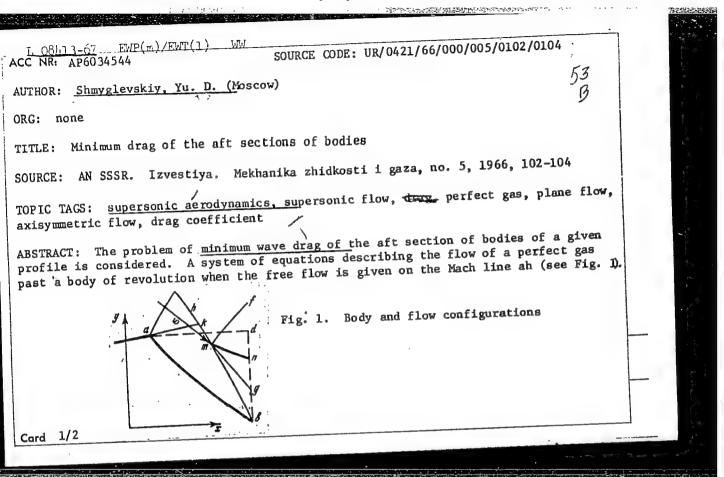
Card 2/4



L 50193-65 AM5013082 Table 1: Values of the functions $\omega(Z)$, $\omega'(Z)$, and $\omega''(Z)$ for axisymmetrical flows -- 44 Table 2: Values of the functions $\omega(Z)$, $\omega'(Z)$, and $\omega''(Z)$ for plane flows :-- 46 Table 3: Values of the functions $\omega(Z)$, $\omega'(Z)$, and $\omega''(Z)$ for annular nozzles with one corner point -- 48 Table 4: Values of the coefficients in expansions of functions F and G for annular nozzles with two corner points -- 54 Table 5: Values of the functions $F(\eta)$, $G(\eta)$ -- 54 References -- 59 AVAILABLE: Library of Congress NO REF SOVE 200ct64 SUBMITTED: SUB CODE: ME OTHER: 014 Card 4/4 Mil

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549810013-9



Û

__L_08413-67

ACC NR: AP6034544

The line ahdba is chosen as a control contour, the segment hd is the Mach line of a second family, and bd is determined by conditions: $x = x_b$, $y_b \le y \le y_a$. The variational problem on the control contour is formulated and solved in the conventional way. The problem consists in finding the functions $\alpha(y)$ and $\theta(y)$ on hd, where α is the Mach angle and θ is the angle between velocity vector and x axis, and functions u(y) and v(y) on hd which minimize the drag χ given by the formula

$$\frac{\chi}{(2\pi)^{2}} = \int_{0}^{\nu_{A}} F_{1} dy + \int_{\nu_{d}}^{\nu_{A}} \Phi_{1} dy + \int_{\nu_{0}}^{\nu_{d}} \Psi_{1} dy.$$

Results of numerical calculations of the minimum drag coefficient are given in tabular form as an illustrative example. Orig. art. has: 2 figures.

SUB CODE: 20/ SUBM DATE: 14Jun66/ ORIG REF: 001/ ATD PRESS: 5103

Card 2/2 LS

MARDERER, R.G.; SHMYGLINA, A.I.; SOROKINA, S.S.

Some data on the epidemiological effectiveness of antipoliomyelitis vaccinations. Vop.virus. 7 no.6:740 N-D '62.

(MIRA 16:4)

1. Nauchno-issledovatel'skiy institut epidemiologii, mikrobiologii 1. Nauchno-Issieuc. i gigiyeny, Ruybyshev. (POLIOMYELITIS-VACCINATION)

CIA-RDP86-00513R001549810013-9" APPROVED FOR RELEASE: 08/23/2000

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549810013-9

SOV/66-59-5-4/35 25(2)

Chaykovskiy, V., Candidate of Technical Sciences, Shmyglya, A., AUTHORS:

Engineer, Savkov, K., Engineer

Comparative Tests of Valves of Various Designs TITLE:

Kholodil'naya tekhnika, 1959, Nr 5, pp 17-21 (USSR) PERIODICAL:

In order to evaluate the serviceableness of valves of various makes ABSTRACT: and designs, as used in Freon machines, a series of comparative tests

have been conducted in the laboratory of the Odessa Refrigeration Machine Building Plant im. Stalin. The valves were divided in 4 groups: The 1st and 2nd groups comprised various types of the suction and discharge valves. The 3rd group contained valves manufactured by the Austrian firm Horbiger and the 4th group valves designed by Engineer A. Shmyglya. The characteristics of the 4 types of valves are shown in Table 1. The tests were conducted with compressor 2FV-10 at certain fixed initial and final temperatures, -15°C and 30°C. A timing device recorded the time necessary for bringing the pressure in the receiver

from 0 to 5 atmospheres. The best time - 22.5 seconds - was made by group 4 valves. Table 2 shows the results of comparative tests obtained by the 4 groups at temperatures indicated. The highest volumetric and

energy coefficients of the compressor 2FV-10 were obtained with valves

Card 1/2

SOV/66-59-5-4/35

Comparative Tests of Valves of Various Designs

of group 4 with reduced dead space. The discharge coefficient of the Freon compressor falls sharply with the increase of dead space starting from 3.5% for example. The reduction of dead space in Freon compressors of average output to below 2% holds practically no advantage. There are 4 photos, 2 tables and 1 graph.

ASSOCIATION:

Odesskiy tekhnolog icheskiy institut pishchevoy i kholodil'noy promyshlennosti (Odessa Technological Institute of the Food and Refrigeration Industries) (Chaykovskiy, V.), Odesskiy zavod kholodil'nogo mashinostroyeniya imeni Stalina (Odessa Refrigeration Machine Building Plantim. Stalin) (Shmyglya, A. and Savkov, K.)

Card 2/2

SHEYGLYA, A.F.; YODYAMITCKAYA, W.I.

Experimental study of the motion of the plates of compressor valves. Khol. tekh. 42 no.4:14-18 JI-Ag 165. (MIRA 18:9)

l. Cdesskiy tekhnologicheskiy institut pishchevoy i kholodilinoy promyshlennosti.

FILIPPOV, P., inzh.; SHAYGLYA, A., inzh.

Making bimetallic tube grids for condensers. Khol. tekh. 34 no.4:

(MIRA 11:1)

(Gondensers (Vapors and gases))

MARTYNOVSKIY, V.; CHAYKOVSKIY, V.; SHMTGLYA, A.

"Method of testing piston-type refrigeration compressors. Khol.tekh.
37 no.3:61-63 My-Je '60. (MIRA 13:7)

(Air compressors)

CHAYKOVSKIY, V.F., kand.tekhn.nauk, dotsent; SHMYGLYA, A.A., inzh.; VODYANITSKAYA, N.I., inzh.

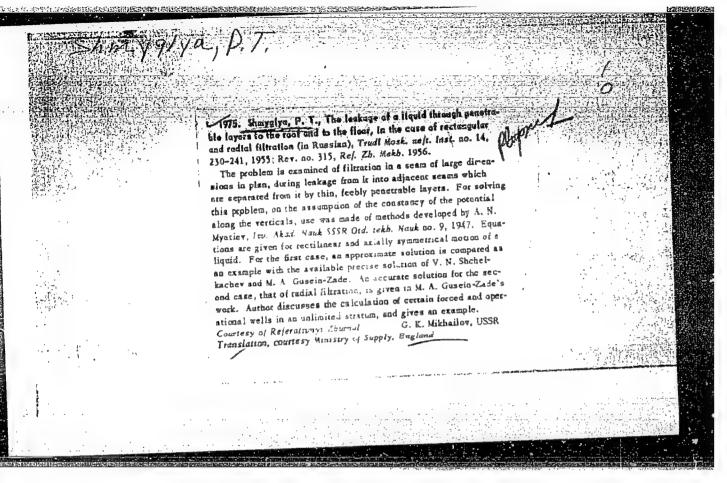
Values of the mean temperature of the walls of a Freon uniflow compressor, Trudy OTIPiKhP 12:33-36 '62. (MIRA 17:1)

1. Kafedra kholodil'nykh mashin Odesskogo tekhnologicheskogo instituta pishchevoy i kholodil'noy promyshlennosti.

CHAYKOVSKIY, V.F., kand. tekhn. nauk; SHMYGLYA, A.A., inzh.; VODYANITSKAYA, N.I., inzh.

Methods for recording the changes in pressure during compressor testing. Khol. tekh. 39 no.5:11-15 S-0 '62. (MIRA 16:7)

1. Odesskiy tekhnologicheskiy institut pishchevoy i kholodil'noy promyshlennosti.
(Compressors—Testing)



"APPROVED FOR RELEASE: 08/23/2000 C

CIA-RDP86-00513R001549810013-9

124-57-1-798 D

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 1, p 106 (USSR)

AUTHOR: Shmyglya, P.T.

TITLE: Experimental and Theoretical Investigation of the Convergence Flow Toward Shallow Wells in Linear and Nonlinear Filtration

Conditions (Eksperimental'noye i teoreticheskoye issledovaniya pritoka k nesovershennym skvazhinam pri lineynom i nelineyom

zakonakh fil'tratsii)

ABSTRACT Bibliographic entry on the author's dissertation for the degree

of Candidate of Technical Sciences, presented to the Mosk. neft.

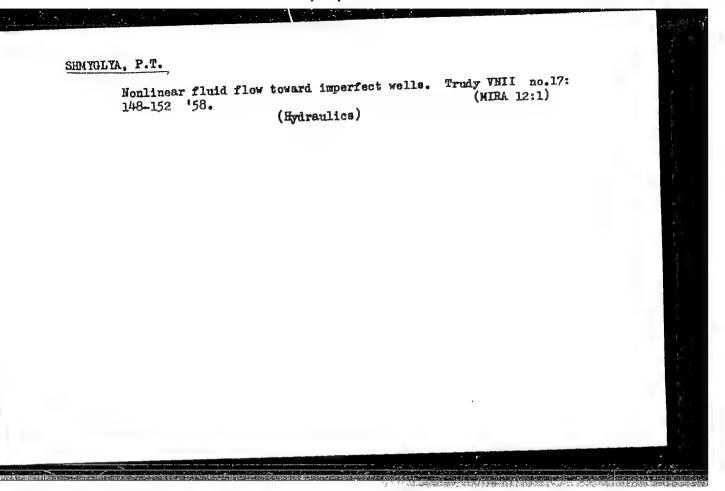
in-t (Moscow Petroleum Institute), Moscow, 1956.

ASSOCIATION: Mosk. neft. in-t (Moscow Petroleum Institute), Moscow

1. Petroleum--Hydrodynamic characteristics--Bibliography

2. Oil wells--Performance

Card 1/1



SHMYGLY A .- P.T.

Flow toward the perforated channel in binomial law of flow.
Trudy KF VNII no.2:124-129 '59. (MIRA 13:11)

(Oil reservoir engineering)

SHMYGLYA, P.T.

Flow toward wells equipped with slotted liners. Trudy KF VNII no.2:130-138 '59. (MIRA 13:11) (Filters and filtration)

SHMYGLIA, P.T.; BASHIYEV, K.S.

Certain particular aspects of the elaboration of experimental data of gas wells. Gaz. prom. 4 no.12:7-9 D '59.

(Gas wells)

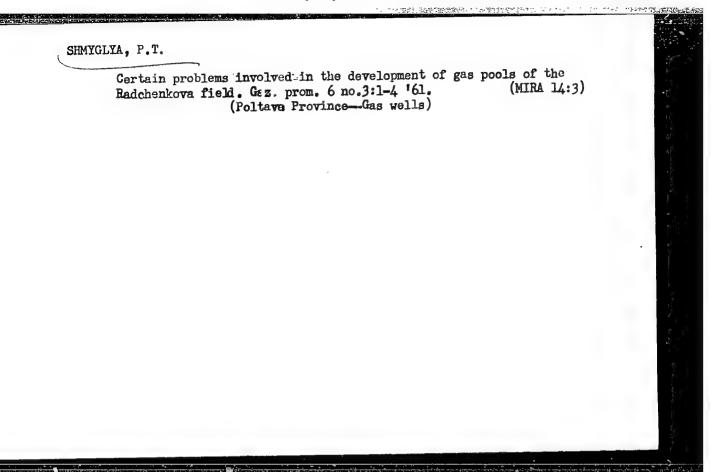
(Gas wells)

SHMYGLYA, P.T.; BASNIYEV, K.S.

Practice of commercial exploitation of the Anastasiyevskoye-Troitskoye gas field. Trudy KF VNII no.5:31-38 '61. (MIRA 14:10) (Kuban-Gas, Natural)

"APPROVED FOR RELEASE: 08/23/2000 (

CIA-RDP86-00513R001549810013-9



SHMYGLYA, P.T.

Determining gas yield from a group of gas fields. Trudy
KF VNII no.9:98-101 '62. (MIRA 15:9)
(Gas, Natural)

SHEYGLYA, Fetr Terent'yevich; HRAGIN, Viktor Alekseyevich;

DINKOV, Vasiliy Aleksandrovich; ARUTYUNOV, A.I., red.;

CHOPOROVA, T.A., ved. red.; STAROSTINA, L.D., tekhn.red.

[Programming the development and exploitation of gas condensate wells. Gas condensate wells in Krasnodar Territory] Proektirovanie razrabotki i ekspluatatsiia gazokondensatnykh mestorozhdenii; gazokondensatnye mestorozhdeniia Krasnodarskogo kraia. Moskva, Gostoptekhizdat, 1963. 233 p. (MIRA 17:1)

SHMYGLTA, P.T.

Determining the operating conditions of gas wells in the development of gas and gas condensate fields with bottom water. Trudy KF VNII no.ll:104-107 '63. (MIRA 17:3)

SHMYGLYA, P.T.; VASIL'YFVA, L.I.; MOKRISHCHEV, E.P.; RASSOXHIN, G.V.

Present status of the development of gas-condensate fields in Krasnodar Territory. Gaz. delc no.5/7:16-27 '63. (MIRA 17:10)

1. Krasnodarskiy filial Vsesoyuznogo neftegazovogo naushac-issledovatel skogo instituta.

FILIMONOVA, T.N.; SHMYGOV, A.M.

A 15 Mev. linear electron accelerator. Zhur. tekh. fiz.
32 no.12:1438-1445 D '62. (MIRA 16:2)
(Particle accelerators)

ICNATOK, A.I., red.; LABUTIN. V.P., red.; IVANOV, I.Z., strashyy inzh.po tekhnike bezopasnosti, red.; GANUSHKINA, Ye.V., kand. tekhn. nauk, red.; PLAKHIN, A.S., kand. med. nauk, starshyy nauchnyy sotr., red.; SHMYGOVA, K.N., red.; FESEL', M.I., starshyy tekhnolog, red.; ALEKSEYEV, A.I., red.; DOBRITSYNA, R.I., tekhn. red.

[Safety and sanitation regulations for electroplating shops] Pravila tekhniki bezopasnosti i proizvodstvennoi sanitarii pri proizvodstve metallopokrytii. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1961. 30 p. (MTRA 14:8)

1. Profsoyuz rabochikh mashinostroyeniya SSSR. 2. Glavnyy tekhmicheskiy inspektor TSentral'nogo komiteta profsoyuza rabochikh mashinostroyeniya SSSR (for Ignatok). 3. Nachal'nik laboratorii metallopokrytiy Nauchno-issledovatel'skogo instituta tekhnologii avto-mobil'noy promyshlennosti (for Labutin). 4. Nauchno-issledovatel'skiy institut tekhnologii avtomobil'noy promyshlennosti (for Ivanov). 5. Nachal'nik laboratorii metallopokrytiy Nauchno-issledovatel'skogo instituta tekhnologii traktornogo i sel'skokhozyaystvennogo mashino-stroyeniya (for Ganushkina). 6. Moskovskiy nauchno-issledovatel'skiy institut okhrany truda Vsesoyuznogo tsentral'nogo soveta profsoyuzov (for Plakhin). 7. Moskovskiy zavod malolitrazhnykh avtomobiley (for Fesel'). 8. Glavnyy konstruktor Gosudarstvennogo instituta po pro-yektirovaniyu zavodov avtomobil'noy promyshlennosti (for Alekseyev). (Electroplating-Safety measures) (Factory sanitation)

SHMY -UL B. P.

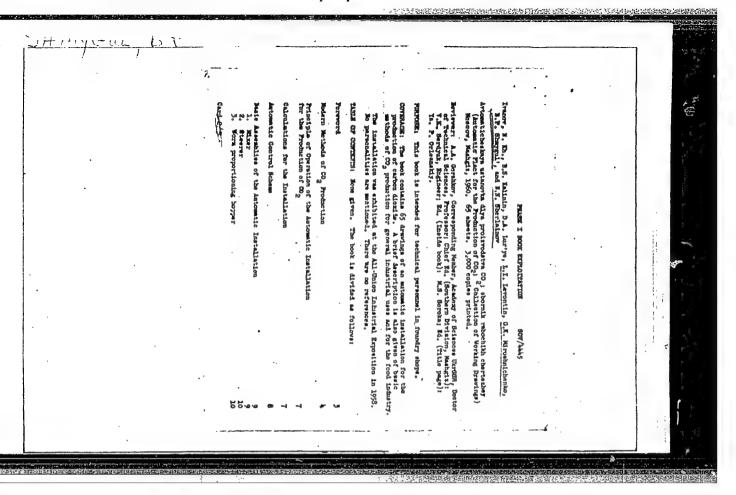
AKSMAN, N.M.; VILENSKIY, L.I.; GORBUNOV, N.G.; GUBSKIY, V.N.; GURVICH,
M.D.; LATYSHEV, Yu.M.; LEVONTIN, L.I.; LIVSHITS, T.G.; LOGINOVA, M.K.; LUR'YE, D.A.; LYANDRES, G.D.; MIROSHNICHENKO, G.K.;
MOGILEVSKIY, B.Ya.; NEMKOVSKIY, H.I.; ORLEANSKIY, Ya.P.; SAVITSKIY, A.N.; SIMMA, S.F.; SURKOV, G.Z.; SHMYGUL', B.P.; SHUBIN,
V.P.; DONSKOY, Ye.Ye., red.izd-va; KAL'NITSKIY, R.Ya., red.izd-va;
ZAMAKHOVSKIY, L.S., tekhn.red.

[Mechanization and automation in the machinery industry] Mekhanizatsiia i avtomatizatsiia v stankostroenii. Khar'kov, Khar'kovskoe obl.izd-vo, 1958. 119 p. (MIRA 13:2)

1. Kharkov. Institut "Giprostanok." 2. Direktor instituta "Giprostanok" (for Orleanskiy).

(Machinery industry—Technological innovations)

(Automation)



EWT(m)/EWA(d)/EWP(j)/T/EWP(t)/EWP(b)/EWA(c) RPL. JD/JW/WB/RM 8945-66 AP5026518 SOURCE CODE: UR/0286/65/000/019/0049/0049 55 55 55 AUTHORS: Gershenovich, A. I.; Stefanovich, V. V.; Mil'rud. S.; Khodking. Shaygul', V. G., Vydrova, Ye. A. (0) ORG: none TITLE: Method for obtaining surface-active quaternary ammonium compounds. Class 3 23, No. 175163 / Zannounced by Organization of State Committee for Chemical Industry at the Gosplan SSSR (Organisatsiya gosudarstvennogo komitete khimicheskoy promyshlennosti pri gosplane SSSR) SOURCE: Byulleten' isobreteniy i tovarnykh znakov, no. 19, 1965, 49 surface active agent, ammonium compound, polymer, polymerisation TOPIC TAGS: ABSTRACT: This Author Certificate presents a method for obtaining surface-active quaternary ammonium compounds by chloromethylating aromatic hydrocarbons, followed by condensation of the chloromethylated product with pyridue or its homologues or with tertiary aliphatic amines. 75 To simplify the process, chloromethylation is carried out in a hydrochloric acid medium and the condensation in an aqueous medium. SUB CODE: 07/ SUBM DATE: 08Sep64 UDC:

1 .	STAYOUL	. V. N	_

- 2. USSR (600)
- 4. Dahlins
- 7. Storing dahlia tubers. Biul. Glav. bot. sada no. 13, 1952.

9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.

New varieties of dahlia. Biul.Glav.bot.sada no.14:93-95 '52. (MLRA 6:5)

1. Glavnyy botanicheskiy sad Akademii Nauk SSSR. (Dahlias)

SHMYGUN, Y.N.

Dahlia breeding. Biul.Glav.bot. sada no.17:106-109 154. (MLRA 8:3)

1. Glavnyy botanicheskiy sad Akademii nauk SSSR. (Dahlias)

SHMYGUN, V.N.

Biology of dahlia flowering. Biul.Glav.bot.sada no.20:118-123 155.
(HIRA 8:9)

1. Glavnyy botanicheskiy sad Akademii nauk SSSR. (Dahlias)

SHMYGUN, V.N., nauchnyy sotrudnik.

Are house plants harmful to man? Priroda 49 no.8:124 Ag *60.
(MIRA 13:8)

1. Glavnyy botanicheskiy sad AN SSSR.
(House plants)

SHMYGUN, V.N., kand.biol.nauk

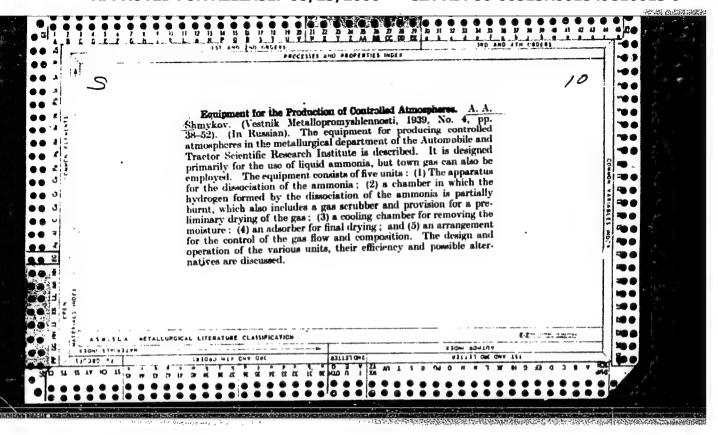
Plants in the room. Zdorov'e 7 no.3:30-31 Mr '61. (MIRA 14:3)
(PLANTS AS SANITARY AGENTS)

SHMYGUN, V.N.

Indian chrysanthemums in the Main Botanical Garden.
Biul.Glav.bot.sada no.58:61-65 '65.

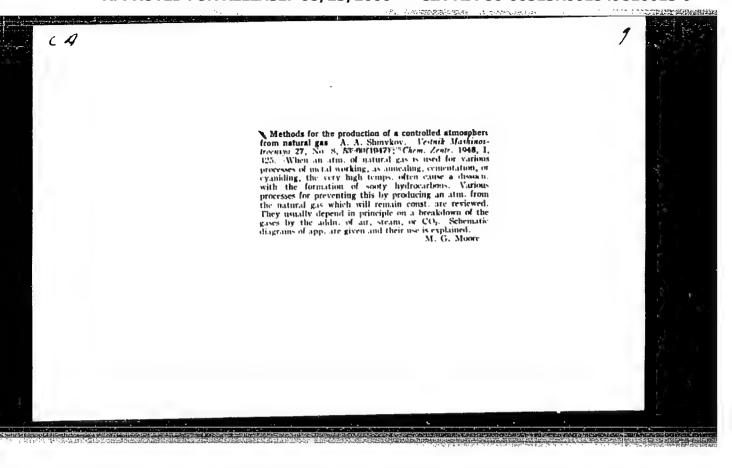
(MIRA 18:12)

1. Glavnyy botanicheskiy sad AN SSSR.



"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549810013-9



Heat trentment of metals; reports. Moshva, Gos. nauch.-tokhn. izd-vo mashinostroit.
lit-ry, 1948. 302 p. (50-15027)
TN731.M2

"APPROVED FOR RELEASE: 08/23/2000 CIA-R

CIA-RDP86-00513R001549810013-9

SHMYKOV, A.A.

[Metallurgist's handbook]

Gos. nauchno-teknn. izd-vo

(Metallurgy-Handbooks, manuals, etc.)

[Metallurgy-Handbooks, manuals, etc.)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549810013-9

SHMYKOV, A.A.; MALYSHEV, B.V.

[Controlled atmosphere in the heat-treatment of steel] Kontroliruemye atmosfery pri termicheskoi obrabotke stali. Moskva, Gos.nauchno-tekhn. izd-vo mashinostroit.lit-ry, 1953. 371 p.

(Steel-Heat treatment)

SHMYKOV, Aleksey Andreyevich Name:

Theoretical bases of acidless heating Dissertation:

of steel

Degree: Doc Tech Sci

All-Union Correspondence Machine Affiliation:

Building Inst

13 Dec 56, Council of Moscow Order of Labor Red Banner Inst of Steel imeni Defense Date, Place:

Stalin

29 Jun 57 Certification Date:

Source: BMV0 18/57

CIA-RDP86-00513R001549810013-9" APPROVED FOR RELEASE: 08/23/2000

"APPROVED FOR RELEASE: 08/23/2000 C

CIA-RDP86-00513R001549810013-9

SHMYKOV, Aleksey Andreyevich, kendidat tekhnicheskikh nauk; GLINER, B.M., inzhener, redaktor; POPOVA,S.M., tekhnicheskiy redaktor

[Metallurgist's handbook] Spravochnik termista. Izd. 3-e, ispr. i
dop. Moskva, Gos. nsuchno-tekhn. izd-vo mashinostroit. lit-ry, 1956.
331 p. (MERA 10:1)

(Metallurgy-Handbooks, manuals, etc.)

Shripker, A A

137-1958-2-2725

Translation from. Referativnyy zhurnál, Metallurgiya, 1958, Nr 2, p 75 (USSR)

Shmykov, A.A. AUTHOR

Theoretical Considerations in Selecting the Make-up of the Gaseous Atmosphere in the Sintering of Powdered Metals (Teoreticheskiye TITLE osnovy vybora sostava gazovykh atmosfer pri spekanii metallicheskikh poroshkov)

PERIODICAL V sb., Poroshkovaya metallurgiya, Nr. 4, Moscow, 1956, pp 32-42

Attention is given to the selection of a reducing gaseous atmosphere for the sintering of the porous pressed compacts of the powdered metals Fe, Fe+C, Fe+Ni, Fe+Cr, and of powdered ABSTRACT alloyed steel and other powdered alloys. The course of the oxidizing and reducing reactions occurring on the surface of the metal particles was analyzed, also the thermodynamic conditions of equilibrium of gas-metal systems with atmospheres of the types $H_2 - H_2O - N_2$, $GO - GO_2 - N_2$, and $GO - GO_2 - H_2 - H_2O - N_2$. Included are equilibrium diagrams for the systems $H_2 - H_2O - Me$ MeO and CO-CO₂-Me-MeO at 400-14000, also equilibrium Card 1/2

137-1958-2-2725

Theoretical Considerations in Selecting the Make-up of the Gaseous (cont.)

diagrams for the atmosphere H_2 - H_2O with a chrome steel at 600 - 1400^O .

I B

1. Powder alloys—Sintering 2. Gases—Atmospheric conditions—Determination

Card 2/2

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549810013-9

Shaykor, A A

137-1958-2-2726

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 2, p 75 (USSR)

Shmykov, A.A., Sarvina, A.S. AUTHORS.

The Effect of Hydrogen Moisture on the Decarbonization of Irongraphite Products (Vliyaniye vlazhnosti vodoroda na TITLE.

obezuglerozhivaniye zhelezografitovykh izdeliy)

PERIODICAL: V sb.: Poroshkovaya metallurgiya. Nr. 4, Moscow, 1956, pp 48-58

Experimental investigations were made of the effect of the temperature (in the 800-1200° range) and duration of sintering in ABSTRACT: an H₂ atmosphere with varying moisture (at a gas consumption rate of a liter per minute) and of the initial porosity of the pressed compacts on the decarbonization of Fe-graphite products. It was shown that the capacity of the H₂ for decarbonization decreased with the decline of its moisture content but that it did not drop to zero even when the dew point was -60° . It is recommended that sintering be done with minimum moisture in the gas and maximum I.B.

density of the pressed compact.

2. Iron graphite—Temperature effects Card 1/1 1. Iron graphite-Sintering

SOKOLOV. Konstantin Nikandrovich; SHMYKOV. A.A., doktor tekhn.nauk, retsenzent; RUSTIM, S.L., kand.tekhn.nauk, retsenzent; SAMOSHIN, I.G., kand.tekhn.nauk, retsenzent; ARZAMASOV, B.H., kand.tekhn.nauk, retsenzent; LAPKIN, N.I., kand.tekhn.nauk, red.; DUGINA, N.A., tekhn.red.

[Equipment of heat-treating shops] Oborudovanie termicheskikh tsekhov. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1957. 420 p. (MIRA 11:4)

1. Kafedra termicheskoy obrabotki metallov Moskovskogo vysshego tekhnicheskogo uchilshcha im. Baumana (for Samoshin, Arzamasov) (Metals--Heat treatment)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549810013-9

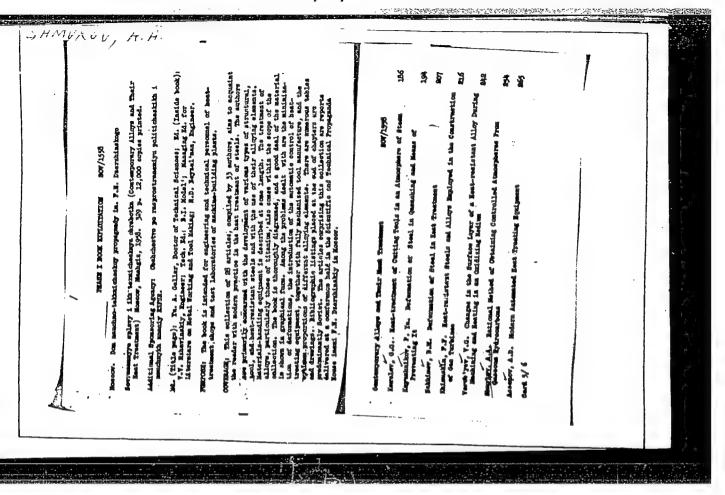
ASSONOV, Aleksendr Danilovich, ;SHEPELYAKOVSKIY, Konstantin Zakharovich,;
LANKIN, Petr Aleksandrovich,; YAITSKOV, S.A., inzh.; SHKLYAROV,
I.N., inzh.; RABIN, M.O., inzh.; SRRYUSHKIN, N.V.; ZHIVOROVSKIY,
A.N.; BORISOV, N.I.; SHRYKOV, A.A., doktor tekhn. nauk, red.;
LOZINSKIY, N.G., doktor tekhn. nauk, retsenzent,; MODEL, B.I., tekhn.red.

[Cas cementation with induction heating] Gazovaia tsementatsiia
s induktsionnym nagrevom. Noskva, Gos. nauchno-tekhn. izd-vo
mashinostroit. lit-ry, 1958. 87 p. (MIRA 11:12)

(Cementation(Metallurgy))

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549810013-9



SOV/137-58-11-22278

Translation from: Referativnyy zhurnal. Metallurgiya, 1958, Nr 11, p 62 (USSR)

Shmykov, A. A. AUTHOR:

Gas Atmospheres in Powder Metallurgy (O primenenii gazovykh TITLE:

atmosfer v poroshkovoy metallurgii)

PERIODICAL: V sb.: Materialy Soveshchaniya glavn. metallurgov z-dov i in-tov

avtomob, prom-sti. Nr 5. Moscow, 1958, pp 14-18

An examination is made of the influence of water vapor in hydrogen ABSTRACT:

atmospheres upon the processes of oxidation and decarburization of sintered materials. The maximum permissible H2O vapor content is determined in each individual case by the curves of equilibrium between the gas phase and the corresponding metal. In the case of Fe, Cu, W, Ni, and Mo, it is sufficient to dry the H2 to the dew point (-60 to -65°C), while for Cr and Al, getters are required. Furnace design (degree of gas-tightness) and conditions of operation, are important. Specifically, it is recommended that furnaces not be used immediately after warming up. To eliminate decarburization, it is necessary to add up to 1% methane to the hydrogen

medium (natural gas or liquified butane-propane mixtures may

Card 1/2

SOV/137-58-11-22278

Gas Atmospheres in Powder Metallurgy
be used instead).

A. N.

PALLS TREAD CONTROLL OF THE PROPERTY OF THE PARTY OF THE	SHMYRCL, H.M.	SOV/1986 Ex (Mandbook 1966 p. 18 to	
		PRICE NOTE EXPLOIDATION salty agranchmik po horte 1 ob "nemacy alternoon float of philathing Fourer Ed. (Inside book): E. id. of philathing Fourer Ed. (Inside book): E. id. of philathing Fourer Ed. (Inside book): E. id. of philathing Fourer Ed. (Inside book): E. be handbook is intended for engineers and beha not initial stock market for engineers and beha on initial stock market for suppose of markets, and on engineers in the original stock of markets and on betainfalt-scoon initial stock market for the harden for the control of the market for the	Louis and the second se

SHMYKOV, A. A.

"Equilibrium Diagram of the Carbon Monoxide-Hudrogen-Steam-CarbonSystem." (Properties of endothermic atmospheres used as protective or carburizing media).

Paper presented at the All-Union Conference on Heat Treatment and Metal Science held in May 1960, Odessa.

SEMYKOV, A.A.

Equilibrium diagram of the system CO - H2 - H2O - C (X-Fe). Izv.vys.ucheb.zav.; chern.met. no.5:16-21 '60. (MIRA 13:6)

l. Vsesoyuznyy zaochnyy mashinostroitel'nyy institut.
(Phase rule and equilibrium)
(Protective atmospheres)

87034 S/129/60/000/012/006/013 E193/E283

AUTHORS:

Shmykov A. A., Doctor of Technical Sciences, Professor and Saklinskiy, V. S., Engineer

TITLE

The Effect of Allotropic Transformations on

Sintering of Iron Powder

PERIODICAL.

Metallovedeniye i termicheskaya obrabotka metallov,

1960, No. 12, pp. 26-30 and 35-36

TEXT: The phenomenon of shrinkage during sintering of iron powder (carbon content = 0.05%) was studied by dilatometric measurements. The analysis of experimental results showed that the coefficient of linear shrinkage, due to sintering, begins to change at a temperature corresponding to the recrystallization temperature which, in the case of iron, lies between 450 and 500°C. Any shrinkage taking place below 500°C is due only to relative movement of the powder particles during thermal expansion of the compact and due to the decrease of the initial porosity. The rapid increase in the intensity of shrinkage above the recrystallizatic . semperature is associated with the growth of new grains in the in reidual, plastically deformed, powder particles. growth affects the particle boundaries by distorting and displacing Card 1/3

S/129/60/000/012/006/013 E193/E283

The Effect of Allotropic Transformations on Sintering of Iron Powder

them; the latter effect brings about the formation of new interfocus, reduces the porosity of the compact and initiates the process of sintering. The shrinkage coefficient reaches its maximum value at temperatures at which phase transformations take place (723-900°C in the case of iron). At temperatures above Acz, the coefficient of shrinkage attains its minimum value. results of experiments in which the effect of sintering temperature on bending strength of sintered compacts was studied, show that the effect of temperature becomes noticeable only starting from about 500°C; with the temperature increasing from 723 to 900°C (from Ac, to Acz), the strength of sintered compact rapidly increases, while sintering at temperatures above 900°C brings about stabilization of the properties of the sintered compact without any significant increase in its strength. The impact strength of sintered compact changes with the sintering temperature, in the same manner. Experiments, in which the effect of the duration of sintering on shrinkage was studied, showed that if sintering is

Card 2/3

8703L S/129/60/000/012/006/013 E193/E283

The Effect of Allotropic Transformations on Sintering of Iron Powder

carried out at temperatures above Acz, no advantage is gained by increasing the sintering time above 1 h. Based on the results of the present investigation, the following procedure is recommended for preparation of sintered iron components of increased strength: 1 - compacting; 2 - 1.5 to 2.5 h sintering at 875°C; 3 - pressing, with final shape-forming; 4 - final sintering at 1000 to 1050°C for no longer than 1 h. A. S. Sarvina and V. K. Svetovidov participated in this work. There are 8 figures, 2 tables and 1 Soviet reference.

ASSOCIATION:

Vsesoyuznyy zaochnyy mashinostroitel'nyy institut i Nauchno-issledovatel'skiy institut tekhnologii avtomobil'noy promyshlennosti (All-Union Correspondence Institute of Machine Building and Technological Scientific Research Institute of the Automobile Industry)

Card 3/3

SHEYKOV, Aleksey Andreyevich, prof. doktor tekhn. nauk; NIKONOV, V.F., inzh., retsenzent; GIL'DENBERG, M.I., red. izd-va; TIKHONOV, A.Ya., tekhn. red.

[Manual on the heat treatment of metals] Spravochnik termista.

Izd.4., ispr. i dop. Moskva, Gos. nauchno-tekhn. izd-vo
mashinostroit. lit-ry, 1961. 390 p. (MIRA 14:9)

(Metals—Heat treatment)

\$/129/61/000/008/001/015

E071/E380

11710

AUTHOR: Shmykov, A.A., Doctor of Technical Sciences, Professor

TITLE:

Theoretical Basis of the Utilisation of the Endo-gas

Atmosphere

PERIODICAL: Metallovedeniye i termicheskaya obrabotka metallov.

1961, No. 8, pp. 2 - 8

TEXT: The endo-gas atmosphere based on CO-H2-H2O is widely

used as a protective atmosphere in heat treatment and as a carburising agent in gas cementation, gas cyaniding and in powder metallurgy. It can be produced either by a partial combustion of hydrocarbons in externally heated generators or by conversion of methane with steam. In the process of oxidation and reduction of oxides the interaction of this atmosphere with steel is controlled by the direction of the reactions:

$$nM + H_2O \stackrel{\longrightarrow}{\leftarrow} mM_{n/m}O_{1/m} - H_2$$

(T)

Card 1/8

26568 \$/129/61/000/008/001/015 E071/E380

Theoretical Basis

and

$$nM + CO_{2\tau} + mM_{n/m}O_{1/m} + CO$$

(2) .

Since the $\rm H_2O$ and $\rm CO_2$ contents are small, the endo-gas atmosphere is reducing for carbon and low-alloy steels. For high-alloy steels the control effected by the endo-gas atmosphere depends on the values of equilibrium constants: $\rm K_1 = \rm P_{\rm H_2}/\rm P_{\rm H_2O}$ and $\rm K_2 = \rm P_{\rm CO}/\rm P_{\rm CO_2}$ both functions of temperature.

The corresponding sums of partial pressures are:

$$P_{H_2} + P_{H_20} = 0.41$$

and:

Card 2/8

26568 5/129/61/000/008/001/015 E071/E380

Theoretical Basis ****

The interaction of the endo-gas atmosphere with steel in carburizing or decarburizing depends on the direction of two reactions:

$$H_2O + C_{\text{(graphite)}} = CO + H_2 \tag{3}$$

$$K_3 = \frac{P_{CO} P_{H_2}}{P_{H_2O}}$$
 and

$$H_2O + C_{(\gamma-Fe)} = CO + H_2$$

$$K_4 = \frac{P_{CO} P_{H_2}}{P_{H_2O} A_C} = \frac{r}{A_C}$$
(4)

Card 3/8

S/129/61/000/008/001/015 E071/E380

Theoretical Basis

where a_c - activity of carbon dissolved in the austenite. The activity of carbon equals unity for saturated austenite on the austenite-graphite boundary. Therefore, $\kappa_4=\kappa_3$ or $r = K_3 a_c$, where r - new value of the ratio for the equilibrium of carbon with austenite Pco°PH2/PH20

of a given composition at $a_{_{\mbox{\scriptsize C}}} < 1$. Using the latter equation, the author constructed an equilibrium diagram for the system CO - H₂ - H₂O - C (Y-Fe) (Fig. 1). This diagram was constructed.

taking into consideration the activity of carbon taken from Ref. 7 (Smith, R.P. - Journal American Chem. Soc., v. 68, No. 7, 1946). On the basis of the most accurate data available, the author found an equation for the temperature-dependence of the equilibrium constant for reaction (3):

Card 4/8

26568 5/129/61/000/008/001/015 E071/E580

Theoretical Basis

$$1g K_5 = -7080T^{-1} + 7.440$$

This equation was used for the construction of the diagram in which r (and lgr) is plotted against - 1/T. Two additional scales are given on the righthand-side for % $\rm H_2O$ corresponding to:

$$P_{H_2} - P_{H_20} + P_{C0} = 1$$

and

$$P_{H_2} + P_{H_20} + P_{C0} = 0.41$$

The water-vapour content was determined from the equation;

$$P_{H_2O} = P + 2K_3 - 2\sqrt{K_3^2 + K_3P}$$

Card 5/8

26568 \$/129/61/000/008/001/015 E071/E580

Theoretical Basis

The diagram has three fields corresponding to the following fields in the iron-cementite equilibrium diagram:

- 1) $\gamma + \text{Fe}_{3}C$ field of carburization;
- 2) γ field of equilibrium between steel of a certain carbon concentration in the austenite and an atmosphere of corresponding composition: this is also the field of decarburization for steel with a higher carbon concentration in the austenite; 5) γ + field of decarburization to pure ferrite. Using the equilibrium diagram, the humidity of the endo-gas required to obtain any desired carbon concentration in the surface layer of steel can be established as a function of temperature. The presence of methane in the endo-gas leads to a decrease in the equilibrium constant of water vapour. The atmosphere of the type CO H₂ H₂O CH₄ (with an addition of 5-10% methane) is
- a gaseous carburizing agent. Such an atmosphere (used in the first period of treatment or in the first zone of a continuous furnace) in combination with the atmosphere CO $\rm H_2$ $\rm H_2O$

Card 6/8

S/129/61/000/008/001/015 E071/E380

Theoretical Basis

(second period, or second zone of a continuous furnace) can be used for the carburization of steel and permits an automatic control of carbon concentration in the surface layer of steel. A few examples of the use of the diagram are given. There are 2 figures and 14 references: 9 Soviet and 5 non-Soviet. The four latest English-language references quoted are: Ref. 1 - R.I. Perrine - Metal Progress, v. 65, No. 5, 1954; N.K. Koebel - Metal Progress, v. 61, No. 2, 1954; Steel Processing, v. 41, No. 4, 1955; Metallurgia, v. 52, No. 309, 1955.

ASSOCIATION:

Vsesoyuznyy zaochnyy mashinostroitel'nyy institut (All-Union Correspondence Machine-

building Institute)

Card 7/8

SHMYKOV, A.A. (Moskva)

Development of and progress in the technology of the heat treatment of steel in the machinery industry. Izv. AN SSSR. Met. no.5:106-120 (MIRA 18:10)

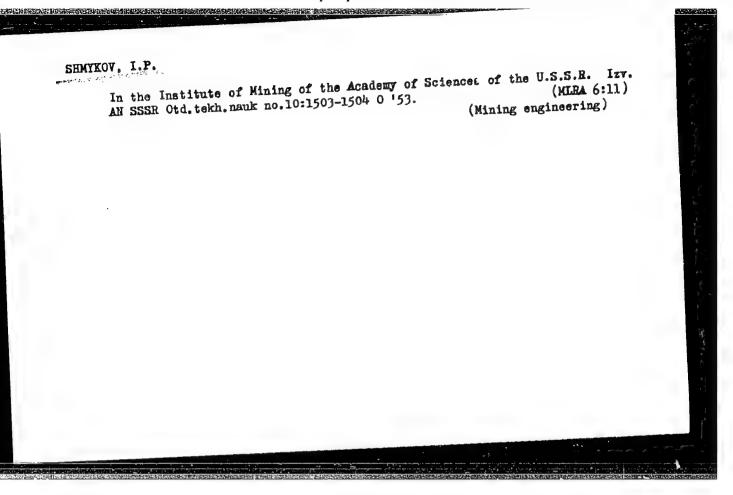
SHMYKOV, B.V.

Excellent section operating under arctic conditions. Put' i put.khoz. 4 no.3:6-7 Mr '60. (MIRA 13:5)

1. Rukovoditel' brigady kommunisticheskogo truda brigadir puti na peregone Khanovey - Pesets, Zapolyar'ye. (Komi A.S.S.R.--Railroads--Maintenance and repair)

SHMYKOV, I.P.

Seminars of the Mining Institute of the Academy of Sciences of the U.S.S.R. on the problem of mining hard coal deposits at great depth. Izv.AH SSSR (MLRA 6:8) Otd.tekh.nauk no.6:946-947 Je '53. (Coal mines and mining)



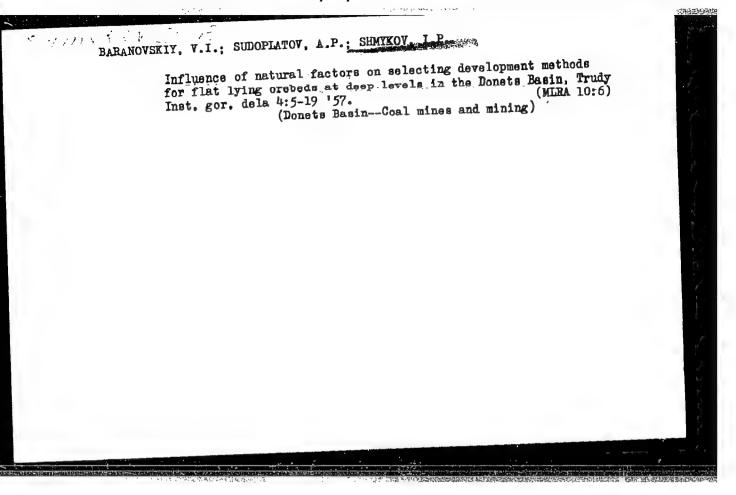
ShnyKov, T.P.

RARAMOVSKIY, V.I.; SUDOPLATOV, A.P.; GENDEL', K.K.; SHMYKOV, I.P.

Preparation and order of development in steeply pitching seams at great depths in the Donets Basin. Trudy Inst.gor.dela 1: 31-46 '54. (MIRA 7:12) (Donets Basin--Coal mines and mining)

BARANOVSKIY, V.I.; SUDOPLATOV, A.P.; SHMYKOV, I.P.; GENDEL', K.K.

Opening steeply pitching coal seams at deep levels in the Donets Basin. Trudy Inst.gor.dela 3:5-12 '56. (MLBA 9:8) (Donets Basin--Coal mines and mining)



Mandendys name ESSN. Institut gornogo data Interprepared Same vakysits a terembetch sastorendends Interprepared Same vakysits a terembetch sastorendends Interprepared Same vakysits a terembetch sastorendends Riberal Deposits) Moscow, Icd-to M. ESSN, 1959, 333 Barg. Ed.; W. Nellinker, Gorresponding Hember, USSN A P.S. Kanisha. of Publishing House; Dr.P. Vaillysvy Fullods: This book is intended for onal and ore mining of COTESTER. The collection of strictle reports on the read Guincas and ove deposits. The book is divided alice to be COTESTER. The collection of strictle reports on the read Guincas and ove deposits. The book is divided alice to be COTESTER. The development and surface of the Institute of Guincas and ove deposits. The book is divided alice to be the stain and ove deposits. The book is divided alice to colf the basis elements in the use of modern mobinized in the basis and elements and principles applicate and over and development development and surface of the propagation of the passing of the passing and the propagation of the capital propagation of the capital propagation of the development of the capital propagation of the capital propagation of the capital pro	Akademiya namik 353m. Institut gornogo dela manohnyya problemy vakrytiya i ratrabotid mastor kiakopawaykh (Soientifia Problems in Devalosi sopise printed. Errata silp insarted. Bras. IN.V. Melinitov, Corresponding Hember 254 Kashina. Rep. Ed.: IN.V. Melinitov, Corresponding Hember 254 Kashina. Funtodi: This book is intended for soal and ore Corresponding Hember 255. Kashina. Funtodi: This book is intended for soal and ore develop and thin a rudies collection of articles as reports on third studies ordusied by members of the Insarts of the AM 553m on problems of develop discusses the developent and exploitation of the sast and ore deposits. The book is divided in the sast alsamis in the nature of the last alsamis in the nature of continuous of the basic alsamis in the nature of continuous of the last alsamis in the nature of continuous of the last alsamis in the nature of continued development, and the proparation of continued in the derivation and funt (Eurat Mannette) ore deposits; the derivating and funted or rudie for a fact of the continuous continuous and funted funted for a fact of the continuous continuous and funted for a fact of the continuous con	Asiantific Froblems (Gont.) Survice, I.P., Gertain Observe Regularities in dround Swalling 103 Frumbachev, F.P., and L.A. Zvoryidn., Study of Wall Stress Gon- ditions for Machanised Support in the Nombass [Nomoor Basin] 111 Oblomolain, Y.I. Anaytdal Wathod of Determining the Basin 1124 Parameters for Goal Shafts Oblomolain, Y.I. Anaytdal Wathod of Determining the length of a Marameters for Goal Shafts of Samil and Moderate Thickness 136 Burneau, I.A. Establishing Hanlage Parameters in Rydraulio Goal Employers and Plat Seems of Aserga Thickness 136 Burneau, A.M. Variable Pactors in the Development of an Arva by Ousting Emtres, Readings, or Stallroads Extended Same in the Donbass in Working Stopes on Steeply 177 Oard A/7
--	--	---

GRIGOR YEV, V.L., kand. tekin. nauk; SHMYKOV, I.P., inzh.

Conference on the problems of mining Donets Basin soal deposits at great depths. Shakht. stroi. 8 nc.4:30-32 Ap164 (MIRA 17:7)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549810013-9

Lead recommercal fit of eat on wall can ame the schryler of algorithms appears appears as the schryest fit great depths. Fig. All Lis. C.A. Cer. Schi. mank 9 no.2184-20 145. (Mih. 18:8)

1. In this groups delete in. A.A.Rhothinskogo Cosuderstvennogo to to thingy programment pri Cospine 2078.

SHMYKOV, M.

More independent work. Prof.-tekh.obr. 13 no.9:22 S '56.

(HIRA 9:10)

1. Zamestitel' nachal'nika Astrakhanskogo oblastnogo upravleniya trudovykh rezervov.

(Technical education)

SHMYKOV, P.A., inzhener; SHAGAL, G.M., inzhener; GOGIN, Ya.I., inzhener; MALKOV, D.E., inzhener.

Precast prestressed reinforced shell arches. Nov.tekh.i pered.op. v stroi. 18 no.12:9-12 D 156. (MLRA 10:1) (Roofs, Shell) (Prestressed concrete construction)

SHMYKOV, S. L.

Improving work indices. Put' i put. khoz. 6 no.10:27 '62.
(MIRA 15:10)

1. Nachal'nik putevoy dorozhnoy mashinnoy stantsii No. 2, stantsiya Kurgan, Yuzhno-Ural'skoy dorogi.

(Railroads-Maintenance and repair)

"APPROVED FOR RELEASE: 08/23/2000

PRINCIPLE OF THE PROPERTY OF T

CIA-RDP86-00513R001549810013-9

KHATSET, B.I.; SHMYLYAN, Yu.L. (Zhitomir).

Teaching elementary mathematics in pedagogical institutes. Mat. v
shkole no.2:20-24 Mr-Ap '58. (MIRA 11:2)

(Mathematics -- Study and teaching)

